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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/994,686 | 11/28/2001 | Akinori Tsubouchi | 042207 | 8464 |

38834 7590 01/18/2006

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP
1250 CONNECTICUT AVENUE, NW
SUITE 700
WASHINGTON, DC 20036

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| EXAMINER |
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CHOWDHURY, SUMAIYA A

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| ART UNIT | PAPER NUMBER |
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2611

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|---|---|--|
| Office Action Summary | Application No. 09/994,686 | Applicant(s) TSUBOUCHI ET AL. | |
| | Examiner Sumaiya A. Chowdhury | Art Unit 2611 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>9-2-05</u> . | 6) <input type="checkbox"/> Other: ____. |

as

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-12 rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani (6721018) in view of Hunt (5287532).

As for claim 1, Shintani discloses in a digital and analog broadcasting receiver comprising both a digital tuner (102 – Fig. 1) for receiving digital broadcasting and an analog tuner (101 – Fig. 1) for receiving analog broadcasting, a digital and analog broadcasting receiver comprising:

a first CPU (104 – Fig. 1);

the first CPU being in charge of existent station channel search processing on the side of the digital tuner and also being in charge of existent station channel search processing on the side of the analog tuner, channel searches by the two tuners controlled by the CPU being concurrently conducted – col. 3, lines 42-48, col. 4, lines 55-65, col. 5, lines 10-19.

However, Shintani fails to disclose:

a second CPU in charge of existent station channel search processing on the side of the analog tuner.

In an analogous art, Hunt teaches supplementing a first processor with a co-processor for the advantage of providing greater backwards compatibility – col. 1, lines 30-35.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Shintani's invention to include a second processor, as taught by Hunt, for the advantage of providing greater backwards compatibility wherein the second processor is in charge of existent station channel search processing on the side of the analog tuner.

As for claim 2, Shintani and Hunt disclose wherein
when the existent station channel search is started,
the first CPU instructs the existent station channel search and performs the
existent station channel search processing on the side of the digital tuner, and
performs the existent station channel search processing on the side of the analog
tuner upon receipt of the instruction to start the search from the first CPU – (Shintani
col. 4, lines 45-52).

Additionally, Hunt teaches supplementing a first processor with a co-processor.

As for claims 3 and 4, Shintani discloses wherein the first CPU inputs a signal based on a key operation by a user and operates – col. 4, lines 38-45. Hunt teaches supplementing a first processor with a co-processor – col. 1, lines 30-35.

As for claims 5 – 8, Shintani and Hunt disclose the receiver comprising
a first memory (memory portion within 206 – Fig. 2 for storing station channel
search data of the digital tuner); and
a second memory (memory portion within 206 – Fig. 2 for storing station channel
search data of the analog tuner),
the first CPU controls the writing and read-out of channel information to and from
a first memory, and the second CPU controls the writing and read-out of channel
information to and from a second memory – col. 7, lines 7-14.

As for claims 9-12, Shintani and Hunt discloses wherein the second CPU feeds
the channel information obtained in the existent station channel search processing to
the first CPU, and the first CPU manages all the channel information on one memory.

In particular, Shintani discloses wherein the two tuners simultaneously scan
frequencies to create a channel map. The processor (first CPU) uses the two tuners in
parallel to scan the available frequencies and locate receivable channels and stores the
channel map information in memory (206) – col. 4, lines 45-52, col. 7, lines 7-13. Hunt
teaches supplementing a first processor with a co-processor.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumaiya A. Chowdhury whose telephone number is (571) 272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SAC



**CHRISTOPHER GRANT
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600**